

# Hispanic-Serving Institutions

National Conference of Soil Survey

Las Cruces, New Mexico

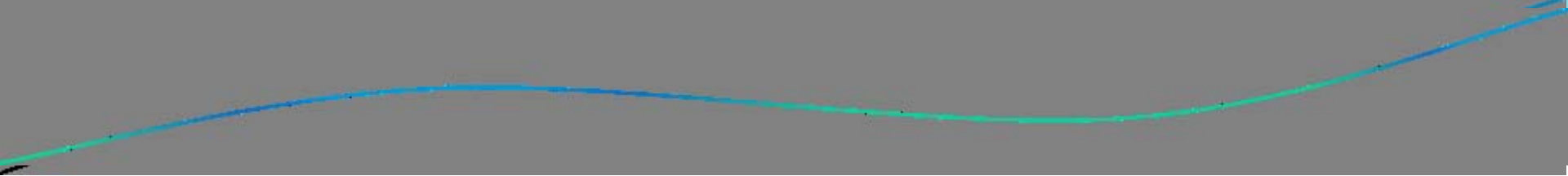
Presented by Irma A. Lawrence

May 11, 2009



# Objectives

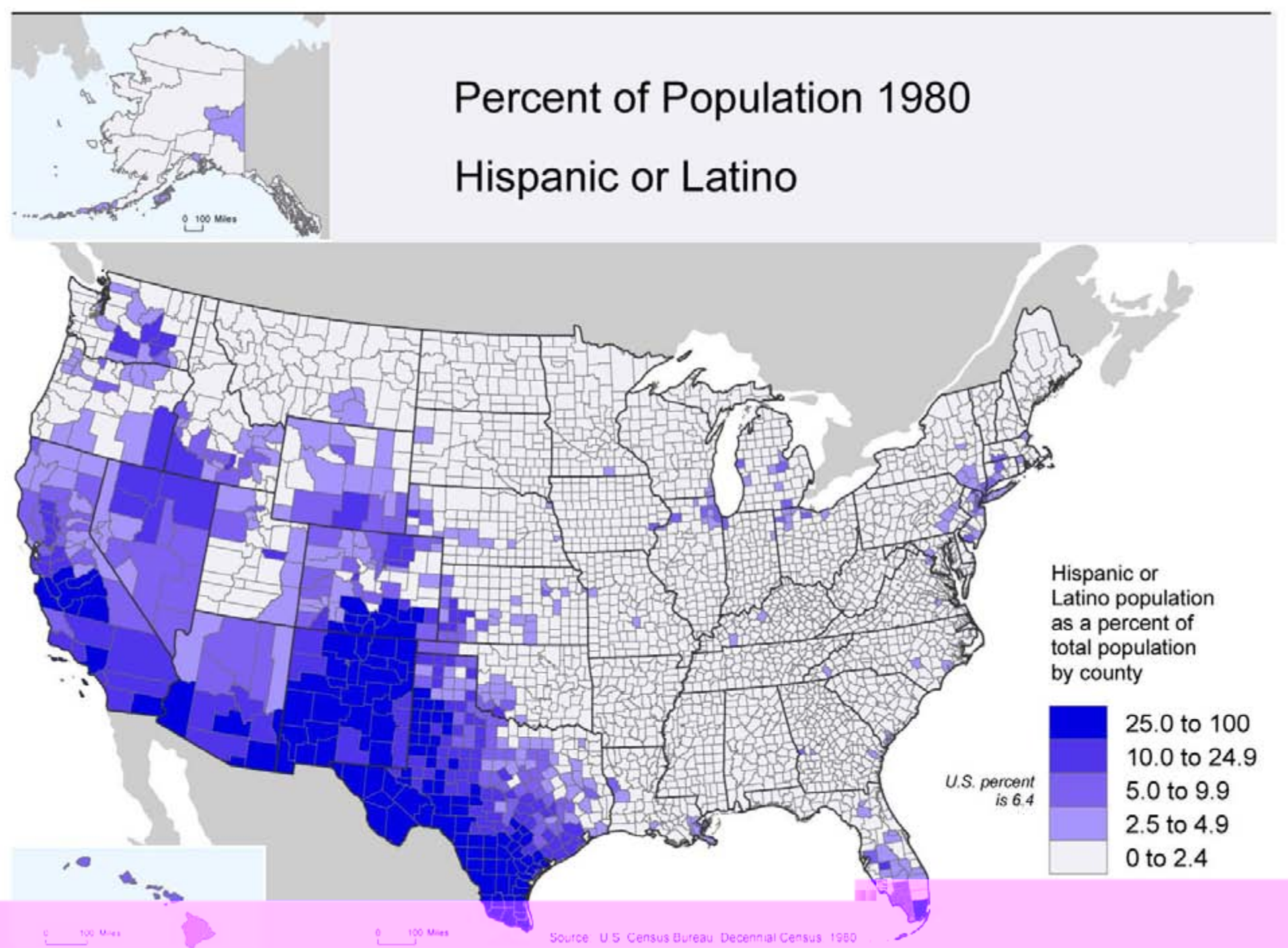
- Briefly discuss the Hispanic population growth
- Overview of the Hispanic-Serving Institutions
- Briefly discuss HSI Education Grants Program
- Provide examples of successful HSI projects in Natural Resources
- Discuss potential opportunities for future collaboration



# Hispanic Population

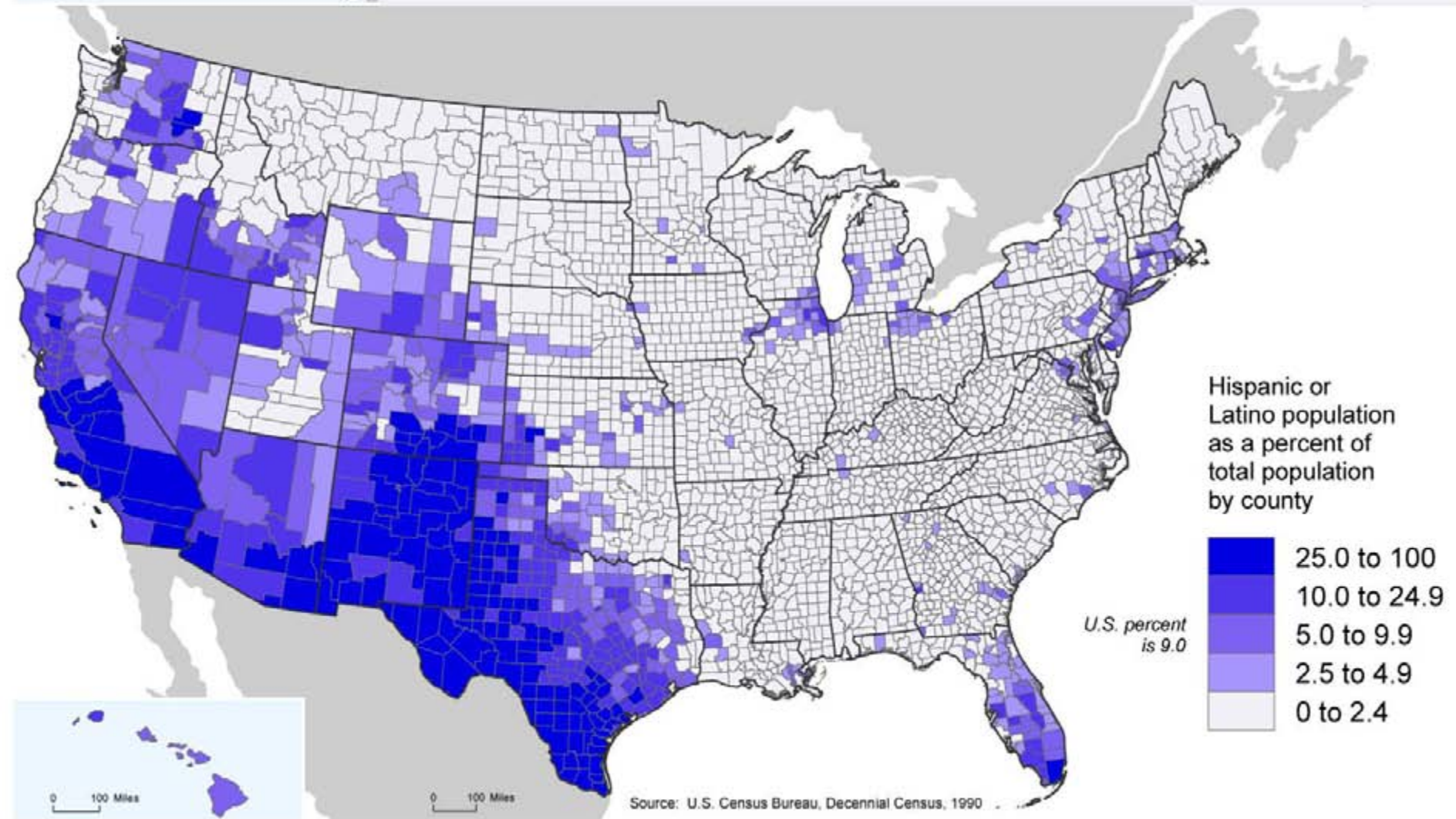
- Hispanics are the **second largest racial/ethnic group** in the US. In 2006, they represented 15% of the population.
- K-12. In 2006, Hispanic students represented **20% of public school** enrollment.
  - 37% enrollment in the West      almost 20% of K-12 t in the South.
  - 15% of K-12 in the Northeast      8% in the Midwest.
- The vast majority of Hispanic students are native-born. In 2006, **86%** of Hispanic students were born in the United States.
- The vast majority of **Hispanic students are fluent in English**. In 2006, 18% of Hispanic and 17% of Asian school-age children spoke a language other than English at home and spoke English with difficulty. In comparison, 1% of white and black school-age children spoke a language other than English at home.
- In 2006, Hispanic students represented **12% of undergraduate** students. [NCES, IPEDS, 2006-07]
- Of Hispanics, the majority are of Mexican descent. In 2006,
  - 62% Mexican descent      9% Puerto Rican
  - 5% Cuban descent      9% were Central American
  - 7% South American descendent      8% had other places of origin. [U.S. Census]

# Percent of Population 1980 Hispanic or Latino

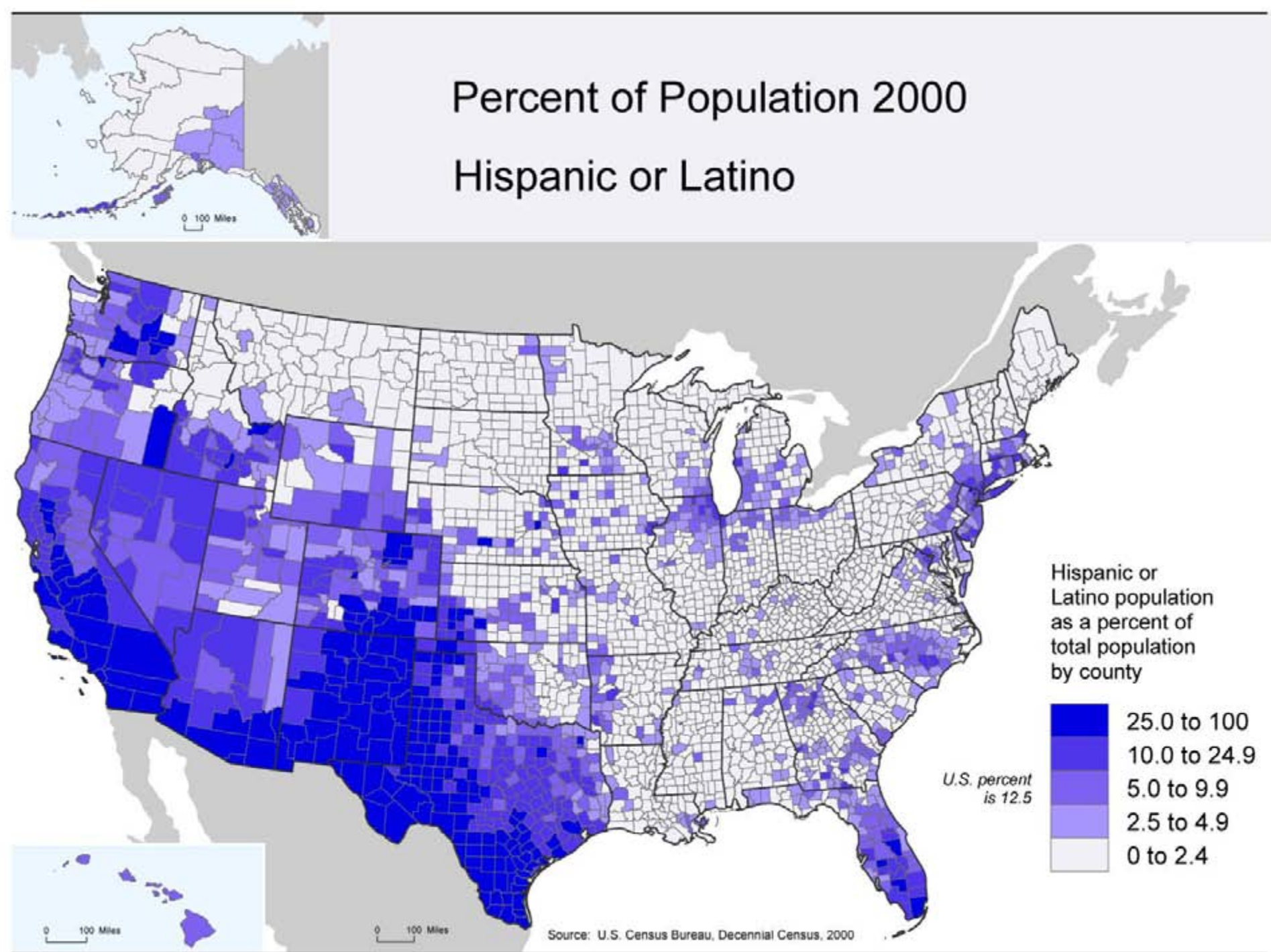


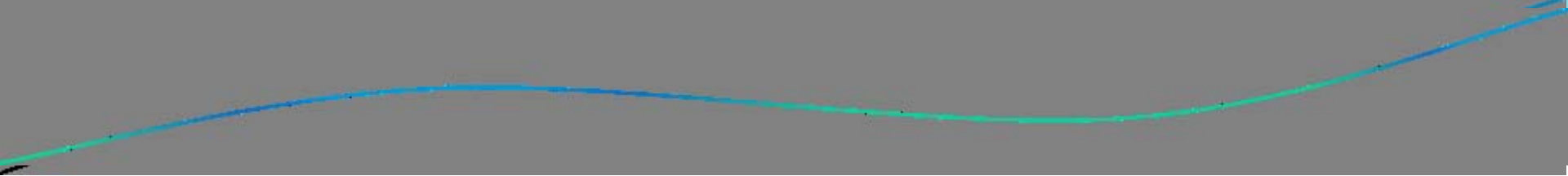


# Percent of Population 1990 Hispanic or Latino



# Percent of Population 2000 Hispanic or Latino

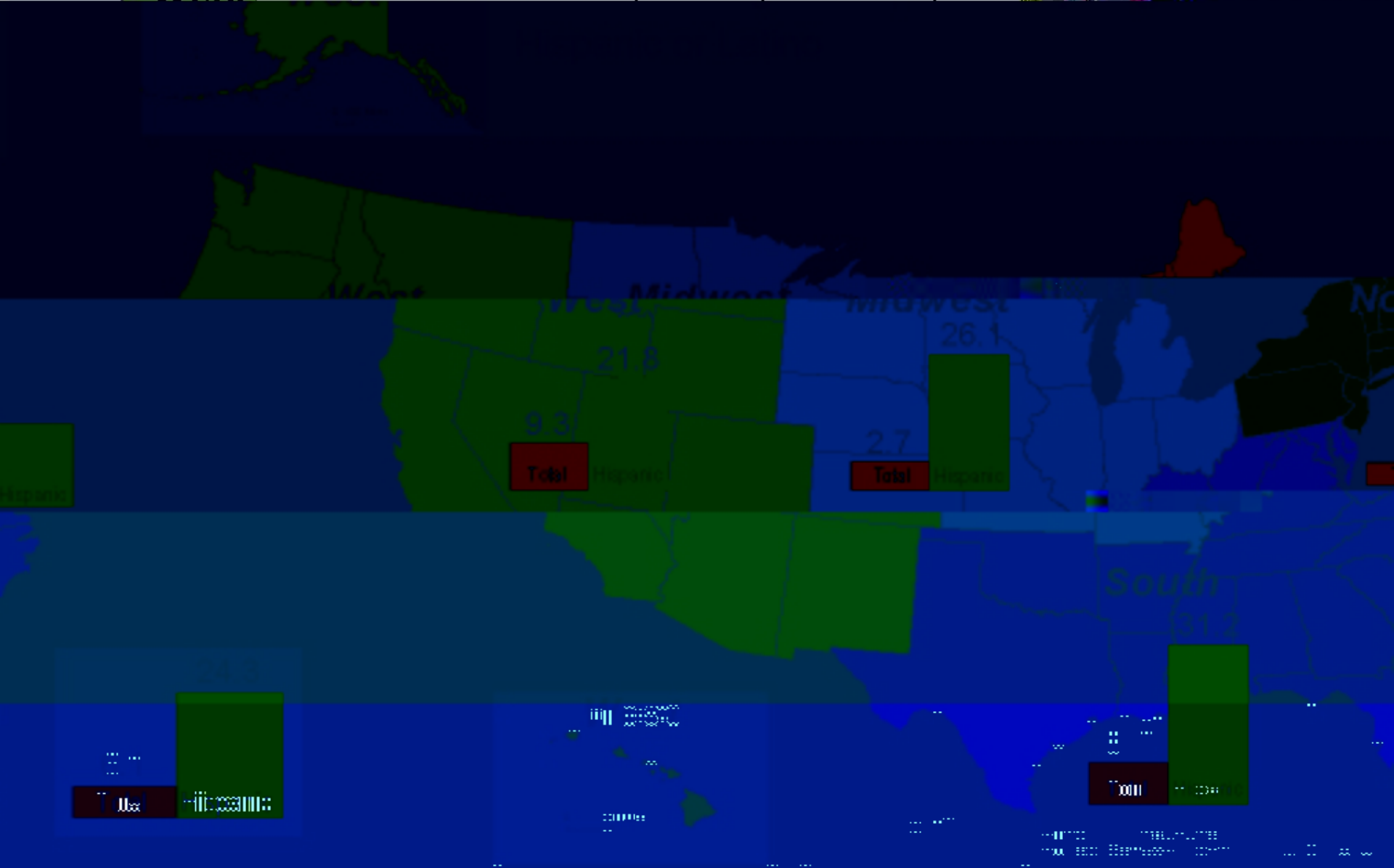








# Percent Change in Population by Region 1990-2000



# Top Five States by Hispanic Population Size: 2006

Rank	State	Population Size
1	California	13,074,156
2	Texas	8,385,139
3	Florida	3,646,499
4	New York	3,139,456
5	Illinois	1,886,933

Source: U.S. Census Bureau, Population Estimates July 1, 2006



# Top Five States by Hispanic Growth Rate: 2000 to 2006

(For states with 100,000 or more Hispanics in 2006)

Rank	State	Growth Rate (percent)
1	Arkansas	60.9
2	Georgia	59.4
3	South Carolina	57.4
4	Tennessee	55.5
5	North Carolina	54.9

Source: U.S. Census Bureau, Population Estimates July 1, 2000 to July 1, 2006



# Hispanic-Serving Institutions



# Hispanic-Serving Institutions

## Diversity Enrollment Percentages

Hispanic	46%
White	27%
Black	10%
Asian/Pacific Islander	9%
American Indian/Alaska Natives	1%
Nonresident Aliens/Unknown	7%



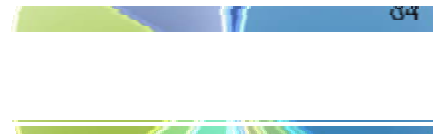
# HSIs Demographics

Degree of Urbanization	% of HSIs
City	54%
Suburb	24%
Town	11%
Rural	10%
Not available	1%
Total:	100%

	Total	
	# of Inst.	%
2-yr	137	52%
4-yr	128	48%
Total	265	100%

# Number of HSIs, by State

State/Location	# HSIs
Arizona	11
California	84
Colorado	5
Connecticut	1
Florida	11
Illinois	10
Kansas	3
Massachusetts	1
New Jersey	5
New Mexico	24
New York	14
Puerto Rico	51
Texas	43
Washington	2
Total:	265



# Emerging HSIs

12 States + Puerto Rico	# HSIs	Hispanic Population	Emerging HSI's
Arizona	11	1,878,097	1
California	84	13,220,891	20
Colorado	5	965,885	1
Connecticut	1	403,375	1
Florida	11	3,755,560	7
Illinois	10	1,919,690	6
Kansas	3	244,306	1
New Jersey	5	1,382,031	2
New Mexico	24	874,688	2
New York	14	3,162,382	5
Puerto Rico	51	457,885	0
Texas	43	8,600,399	18
Washington	2	610,005	1

## Emerging HSIs in Other States

Indiana	1
Louisiana	1



# HSI Education Grants Program

## Activities Funded

1. Curricula Design, Materials Development and Library Resources
2. Faculty Preparation and Enhancement for Teaching
3. Instruction Delivery Systems
4. Scientific Instrumentation for Teaching
5. Student Experiential Learning
6. Student Recruitment and Retention

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# Examples of funded Projects

# JOINT RESEARCH & FIELD INTERNSHIPS IN FOREST AND RANGE ECOSYSTEMS

- 1

**Saint Edward's University**  
**Austin, Texas**

- **OBJECTIVES**
- **Seed an ongoing research program at the ecosystem level for a group**
- **Apply their research expertise to management practices in the field**
- **Infuse natural resource agencies with a greater number of practicing scientists from underrepresented groups**
- **University/Forest Service partnership will be very significant.**





## Enhancing Plant Science Education in the Bronx: Training the Next Generation of Botanist to Protect US Natural Resources

- Lehman College,
- City University of New York
- The New York Botanical Garden
  
- 1. *Enhance curriculum* at Lehman in Biological Sciences and Environmental, Geographic and Geological Sciences (EGGS) utilizing resources and expertise at the NYBG and the USDA, APHIS at JFKIA.
  
- 2. Improve the geographic information system (GIS) computer facility at Lehman and the NYBG
  
- *Create internships* at the NYBG, Lehman, and USDA, APHIS for Lehman and Hostos students using the combined expertise of scientists at all
- participating institutions..



# Increasing Student Learning and Career Development through Agricultural & Natural Resources Based Research

- <sup>1</sup>  
Shad D. Nelson (P.I.), Plant & Soil Sciences  
Randy Stanko & Jamie Laurenz, Animal  
Sciences  
Thomas McGehee, Geophysical Sciences

- KEY OBJECTIVE = TARGET STUDENTS

**To provide under-represented undergraduate students with the skills necessary to compete for and *obtain employment* in positions that meet the Priority criteria of “*enhancing the Nation’s food and agricultural scientific and professional work force.*”**



## **Geomicrobiological and Metagenomic Studies (GeMS) of Puerto Rican Soils.**

**Biology Department**

**1University of Puerto Rico-Mayagüez**

**2University of Puerto Rico-Humacao**

**Carlos Ríos-Velázquez<sup>1</sup>**

**Lilliam Casillas-Martínez<sup>2</sup>**

**To train a new generation of more competitive students in functional genomics, bioprospecting, geomicrobiology and natural resources conservation.**

**Selected students will participate in exchange programs with the University of Wisconsin-Madison, and the Center for Integrative Geosciences at the University of Connecticut.**

**GeMs project will enrich the curriculum at the UPR-system by developing and implementing the first Metagenomic course, and will provide to the participating students the opportunity of visiting schools in Puerto Rico to share what they have learned.**

**More than 500 students from K-12 will be impacted, by knowing about soils, metagenomics, Geomicrobiology, Bioprospecting, conservation of natural resources and careers.**





# More Projects on the Web

- **FY 2008 Hispanic-Serving Institutions Project  
Directors' Meeting**

[http://www.csrees.usda.gov/nea/education/in\\_focus/  
multicultural if hsi conference 08.html](http://www.csrees.usda.gov/nea/education/in_focus/multicultural_if_hsi_conference_08.html)

# HSIs Roadmap

	Biology/Plant Sciences	Natural Resources	Nutrition/Food Safety	Water Quality	Animal Science
AZ	X	O	X	X	
CA		X	X	X	O
CO	O	X	O	X	
CT	O	O	X		
FL	X	X	X	O	
KS		O	O		O
MA	O	O	X		
NM	O	X	X	X	
NJ	O	O X	O		
NY	X	X	X		
PR	X	X	X		X
TX	O	X	X	X	X
WA	O	X	O		
Emerging HSIs					
IN		O	O		
LA		O	O		

Legend	
X	Current
O	Planned



# New Farm Bill Authorizes 5 New Programs

The Agency is also preparing to meet the deadlines designated by the Farm Bill for the implementation of the roadmap starting on October 14, 2008 and to be completed one year from that day. The roadmap will address the following six authorized provisions for HSIs:

## **Title VII: Infrastructure Enhancement Competitive**

Grants(reauthorized) \$40 million

Title VII: Endowment fund for Hispanic-Serving Agriculture Colleges and Universities (HSACUs)

Title VII: Equity Grants Program for HSACUs

Title VII: Institutional Capacity-Building Grant Program for HSACUs

Title VII: Competitive Grants Program for HSACUs

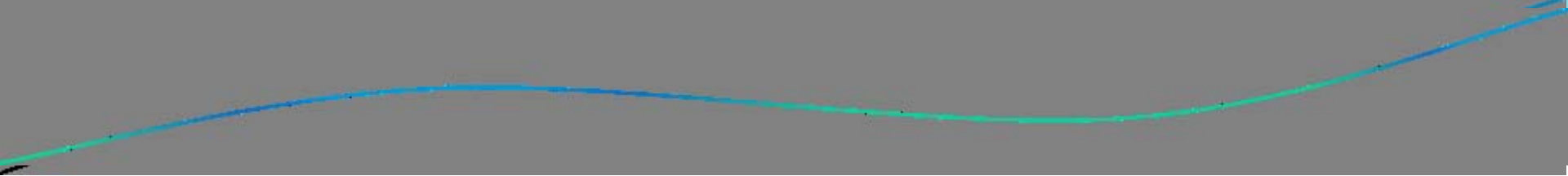
Title VII: Eligibility of HSACUs for International Agriculture Research and Extension

Title VIII: Hispanic-Serving Institution Agricultural Land Natural Resources Leadership Program



# Opportunities for Future Collaborations

- Share expertise with classrooms
- Host student visits and shadowing experiences
- Provide internships to students
- Assist faculty in developing coursework
- Serve as a collaborator
- Share your knowledge
- Other



Thank you!!

